IAP15 Rec'd PCT/PTO 18 AUG 2006

PTO-1390 (Rev. 07-2005) Approved for use through 3/31/2007. OMB 0651-0021 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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## TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) **CONCERNING A SUBMISSION UNDER 35 U.S.C. 371**

ATTORNEY'S DOCKET NUMBER 915-007.208

37 CFR 1.5) INTERNATIONAL FILING DATE INTERNATIONAL APPLICATION NO. PRIORITY DATE CLAIMED PCT/IB2004/000439 February 12, 2004 February 12, 2004 TITLE OF INVENTION CHANNEL EQUALIZATION APPLICANT(S) FOR DO/EO/US Markku RENFORS, Tero IHALAINEN, Tobias HIDALGO STITZ Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: 1. X This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. The US has been elected (Article 31). A copy of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau). A has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). An English language translation of the annexes of the International Preliminary Examination Report under PCT 10. Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: 11. X An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. l An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. A substitute specification. A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825. 18. X A second copy of the published International Application under 35 U.S.C. 154(d)(4). A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. Page 1 of 3

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U.S. APPLICA	197590	, see 37 CSR 1.5	INTERNATIONAL AF		ATTORNEY'S DO	CKET NUMBER	
	3/590	027	PCT/IB2004/00	00439	915-007.208		
20. Other items or information: PCT/IB/308							
The following fees have been submitted					CALCULATIONS	PTO USE ONLY	
21. A Basic national fee (37 CFR 1.492(a))				\$ 300.00			
22. 👿 Ехап	nination fee (37 Cl						
by IPEA	nion prepared by IS /US indicates all cl	\$ 200.00					
23. Search fee (37 CFR 1.492(b))  If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)					\$ 400.00		
TOTAL OF 21, 22 and 23 =					900.00		
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)).  The fee is \$250 for each additional 50 sheets of paper or fraction thereof.  Total Sheets Extra Sheets Number of each additional 50 or fraction RATE thereof (round up to a whole number)							
- 100 =	/50 =	,	× \$250		1 s	1	
Surcharge of \$13	30.00 for furnishing commencement of	\$					
CLAIMS	CLAIMS NUMB		NUMBER EXTRA	RATE	\$	•	
Total claims	43	- 20 =	23	x \$50	\$ 1,150.00		
Independent clair	ms 4	- 3 =	1	x \$200	\$ 200.00		
MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$360					\$		
TOTAL OF ABOVE CALCULATIONS =					\$ 2,250.00		
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.							
		\$					
,	f <b>\$130.00</b> for fumis late (37 CFR 1.492	\$					
		\$ 2,250.00					
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). <b>\$40.00</b> per property +					\$		
TOTAL FEES ENCLOSED = \$							
					Amount to be refunded:	\$	
					Amount to be charged	\$	

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c. $\overline{X}$ The Commissioner is hereby authorized to charge any additional fees which Account No $23-0442$ . A duplicate copy of this sheet is enclosed.	may be required, or credit any overpayment to Deposit					
d. Fees are to be charged to a credit card. WARNING: Information on this form be included on this form. Provide credit card information and authorization						
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.						
	$\sim$					
SEND ALL CORRESPONDENCE TO:	Franin Maquie_					
Customer No. 004955	SIGNATURE					
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## IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

REGARDING THE INTERNATIONAL DOCKET OR REFERENCE NUMBER:
APPLICATION OF:
PCT/IB2004/000439 915-007.208

ENTITLED:
CHANNEL EQUALIZATION

Mail Stop PCT
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## NATIONAL STAGE EXPRESS MAIL CERTIFICATE

"Express Mail" label number: EV 711306586 US

Date of Deposit: August 18, 2006

I hereby certify that the following attached papers or fee

Transmittal Letter to the U.S. Designated/Elected Office (DO/EO/US)

Preliminary Amendment

Copy of Intl. App. as published under WO 2005/091583 A1 on September 29, 2005

front page, 29 pages specification, 13 pages claims, 1 abstract, 4 pages drawings

Information Disclosure Statement, International Search Report, PTO-Form 1449

PCT/IB/308

Check for \$ 2,250.00 for payment of fees

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Are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop PCT, Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Marilyn O'Connell

(Typed or printed name of person mailing paper or fee)

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Each paper letter or communication relating to an international application during the international stage for which a date of filing is to be obtained as of the date of mailing must have its own certificate and the "Express Mail" label number as a part thereof or attached thereto. When, as here, the certification is presented on a separate sheet, that sheet must (1) be signed and (2) fully identify and be securely attached to the paper or fee it accompanies. Identification should include the serial number and filing date of the application as well as the type of paper being filed, e.g. complete application, specification and drawings, responses to rejection or refusal, notice of appeal, etc. If the serial number of the application is not known, the identification should include at least the name of the inventors (s) and the title of the invention.

The label number need not be placed on each page. It should, however, be placed on the first page of each separate document, such as, a new application, amendment, assignment, and transmittal letter or a fee, along with the certificate of mailing by "Express Mail". Although the label number may be on checks, such a practice is not required. In order not to deface formal drawings it is suggested that the label number be placed on the back of each formal drawing or the drawings be accompanied by a set of informal drawings on which the label number is place.

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